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(71) Applicant: TOSHIBA CORP

(72) Inventor: MIZUNO TOMOHIRO

(54) RADAR RAINFALL MEASURING APPARATUS

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain a radar rainfall measuring apparatus in which the measuring accuracy of rainfall information is not lowered even when a water film is formed on the surface of a radome.

SOLUTION: An antenna 102 which is covered with a radome 101 radiates, to a space, transmission pulses generated by a transmission-reception part 300, and an echo due to a waterdrop or the like in the air by the transmission pulses is received. The received echo is amplified and detected by the transmission-reception part 300 so as to be input to a signal processing part 400 as reception data. Then, an A/D conversion operation, a clutter removal operation and a mesh averaging processing operation are executed to the reception data by the signal processing part 400, and its attenuation due to a water film formed on the radome 101 is corrected by an attenuation correction circuit 404 on the basis of ground rainfall data which is measured by a ground rain gage 500. Then, a rainfall intensity is found by a rainfall-intensity computing circuit 405 on the basis of an attenuation correction result.

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